

ABSTRACT

A method and apparatus for aseptic biological production of cells and/or microorganisms is provided. The apparatus includes a support housing having an interior chamber, a disposable liner lining the interior chamber and a head plate attached to the liner forming a sealed chamber with the liner. After use the liner can be thrown away and the apparatus can be reused with a new liner. In this way, the apparatus simplifies cleaning and ensuring validation required by pharmaceutical and food industry standards.